

ANALYTICAL REPORT

Job Number: 280-13459-1

Job Description: SKAER #3

For:

Colorado Oil&Gas Conservation Commission

1120 Lincoln St.

Suite 801

Denver, CO 80203

Attention: Steven Lindblom



Approved for release.
Lori A Parsons
Project Manager I
3/25/2011 2:50 PM

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Project Manager I
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03/25/2011

The test results in this report relate only to the samples in this report and meet all requirements of NELAP, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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CASE NARRATIVE

Client: Colorado Oil&Gas Conservation Commission

Project: SKAER #3

Report Number: 280-13459-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 03/11/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C.

DIESEL RANGE ORGANICS

Samples SKAER FARMS3 SS01 (280-13459-1) and SKAER FARMS3 SS02 (280-13459-2) were analyzed for diesel range organics in accordance with EPA SW-846 Method 8015B - DRO. The samples were prepared on 03/15/2011 and analyzed on 03/16/2011.

No difficulties were encountered during the DRO analyses.

All quality control parameters were within the acceptance limits.

SODIUM ABSORPTION RATIO

Samples SKAER FARMS3 SS01 (280-13459-1) and SKAER FARMS3 SS02 (280-13459-2) were analyzed for Sodium Absorption Ratio in accordance with USDA Handbook 60 - 20B. The samples were prepared on 03/16/2011 and analyzed on 03/21/2011.

No difficulties were encountered during the SAR analyses.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples SKAER FARMS3 SS01 (280-13459-1) and SKAER FARMS3 SS02 (280-13459-2) were analyzed for percent solids in accordance with EPA SW846 3550C. The samples were analyzed on 03/14/2011.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13459-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 57206Lab Sample ID: IC 280-57206/2 Client Sample ID: _____Date Analyzed: 03/10/11 18:23 Lab File ID: 004B0401.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C22-C36	7.57	Baseline Event	birdsellm	03/12/11 14:17
Motor Oil Range Organics [C24-C36]	7.81	Baseline Event	birdsellm	03/12/11 14:17
Motor Oil Range Organics (C25-C36)	7.91	Baseline Event	birdsellm	03/12/11 14:17

Lab Sample ID: IC 280-57206/3 Client Sample ID: _____Date Analyzed: 03/10/11 18:51 Lab File ID: 005B0501.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C22-C36	7.57	Baseline Event	birdsellm	03/12/11 14:17
Motor Oil Range Organics [C24-C36]	7.81	Baseline Event	birdsellm	03/12/11 14:17
Motor Oil Range Organics (C25-C36)	7.91	Baseline Event	birdsellm	03/12/11 14:17

Lab Sample ID: IC 280-57206/4 Client Sample ID: _____Date Analyzed: 03/10/11 19:19 Lab File ID: 006B0601.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C22-C36	7.57	Baseline Event	birdsellm	03/12/11 14:17
Motor Oil Range Organics [C24-C36]	7.81	Baseline Event	birdsellm	03/12/11 14:17
Motor Oil Range Organics (C25-C36)	7.91	Baseline Event	birdsellm	03/12/11 14:17

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13459-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 57206Lab Sample ID: ICRT 280-57206/5 Client Sample ID: _____Date Analyzed: 03/10/11 19:46 Lab File ID: 007B0701.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C22-C36	7.57	Baseline Event	birdsellm	03/12/11 14:15
Motor Oil Range Organics [C24-C36]	7.81	Baseline Event	birdsellm	03/12/11 14:15
Motor Oil Range Organics (C25-C36)	7.91	Baseline Event	birdsellm	03/12/11 14:15

Lab Sample ID: IC 280-57206/6 Client Sample ID: _____Date Analyzed: 03/10/11 20:14 Lab File ID: 008B0801.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C22-C36	7.57	Baseline Event	birdsellm	03/12/11 14:18
Motor Oil Range Organics [C24-C36]	7.81	Baseline Event	birdsellm	03/12/11 14:18
Motor Oil Range Organics (C25-C36)	7.91	Baseline Event	birdsellm	03/12/11 14:18

Lab Sample ID: IC 280-57206/7 Client Sample ID: _____Date Analyzed: 03/10/11 20:41 Lab File ID: 009B0901.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C22-C36	7.57	Baseline Event	birdsellm	03/12/11 14:18
Motor Oil Range Organics [C24-C36]	7.81	Baseline Event	birdsellm	03/12/11 14:18
Motor Oil Range Organics (C25-C36)	7.91	Baseline Event	birdsellm	03/12/11 14:18

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13459-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 57206Lab Sample ID: IC 280-57206/8 Client Sample ID: _____Date Analyzed: 03/10/11 21:08 Lab File ID: 010B1001.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C22-C36	7.57	Baseline Event	birdsellm	03/12/11 14:18
Motor Oil Range Organics [C24-C36]	7.81	Baseline Event	birdsellm	03/12/11 14:18
Motor Oil Range Organics (C25-C36)	7.91	Baseline Event	birdsellm	03/12/11 14:18

Lab Sample ID: ICV 280-57206/9 Client Sample ID: _____Date Analyzed: 03/10/11 21:36 Lab File ID: 011B1101.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C22-C36	7.57	Baseline Event	birdsellm	03/12/11 14:20
Motor Oil Range Organics [C24-C36]	7.81	Baseline Event	birdsellm	03/12/11 14:20
Over C24-C36	7.86	Baseline Event	birdsellm	03/12/11 14:20
Motor Oil Range Organics (C25-C36)	7.91	Baseline Event	birdsellm	03/12/11 14:20

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13459-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 57207Lab Sample ID: IC 280-57207/2 Client Sample ID: _____Date Analyzed: 03/11/11 13:50 Lab File ID: 004B0401.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.55	Baseline Event	birdsellm	03/12/11 14:49
C10-C24	3.78	Baseline Event	birdsellm	03/12/11 14:49
Diesel Range Organics [C10-C25]	3.89	Baseline Event	birdsellm	03/12/11 14:49
Diesel Range Organics [C10-C28]	4.19	Baseline Event	birdsellm	03/12/11 14:49
C8-C34	4.43	Baseline Event	birdsellm	03/12/11 00:00
C10-C32	4.55	Baseline Event	birdsellm	03/12/11 14:49
C10-C36	4.88	Baseline Event	birdsellm	03/12/11 14:49

Lab Sample ID: IC 280-57207/3 Client Sample ID: _____Date Analyzed: 03/11/11 14:18 Lab File ID: 005B0501.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.55	Baseline Event	birdsellm	03/12/11 14:49
C10-C24	3.78	Baseline Event	birdsellm	03/12/11 14:49
Diesel Range Organics [C10-C25]	3.89	Baseline Event	birdsellm	03/12/11 14:49
Diesel Range Organics [C10-C28]	4.19	Baseline Event	birdsellm	03/12/11 14:49
C8-C34	4.43	Baseline Event	birdsellm	03/12/11 14:49
C10-C32	4.55	Baseline Event	birdsellm	03/12/11 14:49
C10-C36	4.88	Baseline Event	birdsellm	03/12/11 14:49
o-Terphenyl	5.30	Baseline Event	birdsellm	03/12/11 14:49
n-Octacosane	7.53	Baseline Event	birdsellm	03/12/11 14:49

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13459-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 57207Lab Sample ID: IC 280-57207/4 Client Sample ID: _____Date Analyzed: 03/11/11 14:46 Lab File ID: 006B0601.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.55	Baseline Event	birdsellm	03/12/11 14:50
C10-C24	3.78	Baseline Event	birdsellm	03/12/11 14:50
Diesel Range Organics [C10-C25]	3.89	Baseline Event	birdsellm	03/12/11 14:50
Diesel Range Organics [C10-C28]	4.19	Baseline Event	birdsellm	03/12/11 14:50
C8-C34	4.43	Baseline Event	birdsellm	03/12/11 14:50
C10-C32	4.55	Baseline Event	birdsellm	03/12/11 14:50
C10-C36	4.88	Baseline Event	birdsellm	03/12/11 14:50
o-Terphenyl	5.29	Baseline Event	birdsellm	03/12/11 14:50
n-Octacosane	7.53	Baseline Event	birdsellm	03/12/11 14:50

Lab Sample ID: ICRT 280-57207/5 Client Sample ID: _____Date Analyzed: 03/11/11 15:14 Lab File ID: 007B0701.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.55	Baseline Event	birdsellm	03/12/11 14:47
C10-C24	3.78	Baseline Event	birdsellm	03/12/11 14:47
Diesel Range Organics [C10-C25]	3.89	Baseline Event	birdsellm	03/12/11 14:47
Diesel Range Organics [C10-C28]	4.19	Baseline Event	birdsellm	03/12/11 14:47
C10-C32	4.55	Baseline Event	birdsellm	03/12/11 14:47
C10-C36	4.88	Baseline Event	birdsellm	03/12/11 14:47
o-Terphenyl	5.29	Baseline Event	birdsellm	03/12/11 14:47
n-Octacosane	7.53	Baseline Event	birdsellm	03/12/11 14:47

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13459-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 57207Lab Sample ID: IC 280-57207/6 Client Sample ID: _____Date Analyzed: 03/11/11 15:42 Lab File ID: 008B0801.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.55	Baseline Event	birdsellm	03/12/11 14:50
C10-C24	3.78	Baseline Event	birdsellm	03/12/11 14:50
Diesel Range Organics [C10-C25]	3.89	Baseline Event	birdsellm	03/12/11 14:50
Diesel Range Organics [C10-C28]	4.19	Baseline Event	birdsellm	03/12/11 14:50
C8-C34	4.43	Baseline Event	birdsellm	03/12/11 14:50
C10-C32	4.55	Baseline Event	birdsellm	03/12/11 14:50
C10-C36	4.88	Baseline Event	birdsellm	03/12/11 14:50
o-Terphenyl	5.29	Baseline Event	birdsellm	03/12/11 14:50
n-Octacosane	7.57	Baseline Event	birdsellm	03/12/11 14:50

Lab Sample ID: IC 280-57207/7 Client Sample ID: _____Date Analyzed: 03/11/11 16:10 Lab File ID: 009B0901.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.55	Baseline Event	birdsellm	03/12/11 14:56
C10-C24	3.78	Baseline Event	birdsellm	03/12/11 14:56
Diesel Range Organics [C10-C25]	3.89	Baseline Event	birdsellm	03/12/11 14:56
Diesel Range Organics [C10-C28]	4.19	Baseline Event	birdsellm	03/12/11 14:56
C10-C32	4.55	Baseline Event	birdsellm	03/12/11 14:56
C10-C36	4.88	Baseline Event	birdsellm	03/12/11 14:56
o-Terphenyl	5.29	Baseline Event	birdsellm	03/12/11 14:56
n-Octacosane	7.47	Baseline Event	birdsellm	03/12/11 14:50

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13459-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 57207Lab Sample ID: IC 280-57207/8 Client Sample ID: _____Date Analyzed: 03/11/11 16:38 Lab File ID: 010B1001.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.55	Baseline Event	birdsellm	03/12/11 00:00
C10-C24	3.78	Baseline Event	birdsellm	03/12/11 00:00
Diesel Range Organics [C10-C25]	3.89	Baseline Event	birdsellm	03/12/11 00:00
Diesel Range Organics [C10-C28]	4.19	Baseline Event	birdsellm	03/12/11 00:00
C8-C34	4.43	Baseline Event	birdsellm	03/12/11 00:00
C10-C32	4.55	Baseline Event	birdsellm	03/12/11 00:00
C10-C36	4.88	Baseline Event	birdsellm	03/12/11 00:00
o-Terphenyl	5.30	Baseline Event	birdsellm	03/12/11 14:58
n-Octacosane	7.64	Baseline Event	birdsellm	03/12/11 14:57

Lab Sample ID: ICV 280-57207/9 Client Sample ID: _____Date Analyzed: 03/11/11 17:06 Lab File ID: 011B1101.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	5.29	Split Peak	birdsellm	03/12/11 15:00

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13459-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 58077Lab Sample ID: CCVRT 280-58077/2 Client Sample ID: _____Date Analyzed: 03/16/11 11:08 Lab File ID: 004B0401.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C25]	3.88	Baseline Event	birdsellm	03/17/11 09:01
Diesel Range Organics [C10-C28]	4.18	Baseline Event	birdsellm	03/17/11 09:01
C10-C36	4.87	Baseline Event	birdsellm	03/17/11 09:01
o-Terphenyl	5.29	Split Peak	birdsellm	03/17/11 09:01
n-Octacosane	7.53	Baseline Event	birdsellm	03/17/11 09:01
Motor Oil Range Organics [C24-C36]	7.81	Baseline Event	birdsellm	03/17/11 09:01
Motor Oil Range Organics (C25-C36)	7.92	Baseline Event	birdsellm	03/17/11 09:01

Lab Sample ID: CCV 280-58077/3 Client Sample ID: _____Date Analyzed: 03/16/11 11:36 Lab File ID: 005B0501.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C25]	3.88	Baseline Event	birdsellm	03/17/11 10:24
C10-C36	4.87	Baseline Event	birdsellm	03/17/11 10:24
Motor Oil Range Organics [C24-C36]	7.81	Baseline Event	birdsellm	03/17/11 10:24
Motor Oil Range Organics (C25-C36)	7.92	Baseline Event	birdsellm	03/17/11 10:24

Lab Sample ID: LCS 280-57599/2-A Client Sample ID: _____Date Analyzed: 03/16/11 12:32 Lab File ID: 007B0701.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C25]	3.88	Baseline Event	birdsellm	03/17/11 10:29
o-Terphenyl	5.28	Baseline Event	birdsellm	03/17/11 10:29
Motor Oil Range Organics (C25-C36)	7.92	Baseline Event	birdsellm	03/17/11 10:29

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13459-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 58077Lab Sample ID: 280-13459-1 Client Sample ID: SKAER FARMS3 SS01Date Analyzed: 03/16/11 13:00 Lab File ID: 008B0801.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C25]	3.88	Baseline Event	birdsellm	03/17/11 10:29
o-Terphenyl	5.28	Baseline Event	birdsellm	03/17/11 10:29
Motor Oil Range Organics (C25-C36)	7.92	Baseline Event	birdsellm	03/17/11 10:29

Lab Sample ID: 280-13459-1 MS Client Sample ID: SKAER FARMS3 SS01 MSDate Analyzed: 03/16/11 13:28 Lab File ID: 009B0901.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C25]	3.88	Baseline Event	birdsellm	03/17/11 10:30
o-Terphenyl	5.28	Baseline Event	birdsellm	03/17/11 10:30
Motor Oil Range Organics (C25-C36)	7.92	Baseline Event	birdsellm	03/17/11 10:30

Lab Sample ID: 280-13459-1 MSD Client Sample ID: SKAER FARMS3 SS01 MSDDate Analyzed: 03/16/11 13:56 Lab File ID: 010B1001.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C25]	3.88	Baseline Event	birdsellm	03/17/11 10:30
o-Terphenyl	5.28	Baseline Event	birdsellm	03/17/11 10:30
Motor Oil Range Organics (C25-C36)	7.92	Baseline Event	birdsellm	03/17/11 10:30

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13459-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 58077Lab Sample ID: CCV 280-58077/14 Client Sample ID: _____Date Analyzed: 03/16/11 16:46 Lab File ID: 016B1601.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C25]	3.88	Baseline Event	birdsellm	03/17/11 10:25
Diesel Range Organics [C10-C28]	4.18	Baseline Event	birdsellm	03/17/11 10:25
C10-C36	4.87	Baseline Event	birdsellm	03/17/11 10:25
o-Terphenyl	5.29	Baseline Event	birdsellm	03/17/11 10:25
n-Octacosane	7.52	Baseline Event	birdsellm	03/17/11 10:25
Motor Oil Range Organics [C24-C36]	7.81	Baseline Event	birdsellm	03/17/11 10:25
Motor Oil Range Organics (C25-C36)	7.92	Baseline Event	birdsellm	03/17/11 10:25

Lab Sample ID: CCV 280-58077/15 Client Sample ID: _____Date Analyzed: 03/16/11 17:14 Lab File ID: 017B1701.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C25]	3.88	Baseline Event	birdsellm	03/17/11 10:25
C10-C36	4.87	Baseline Event	birdsellm	03/17/11 10:25
Motor Oil Range Organics [C24-C36]	7.81	Baseline Event	birdsellm	03/17/11 10:25
Motor Oil Range Organics (C25-C36)	7.92	Baseline Event	birdsellm	03/17/11 10:25

Lab Sample ID: LCS 280-57599/14-A Client Sample ID: _____Date Analyzed: 03/16/11 19:06 Lab File ID: 021B2101.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C25]	3.88	Baseline Event	birdsellm	03/17/11 10:33
o-Terphenyl	5.28	Baseline Event	birdsellm	03/17/11 10:33
Motor Oil Range Organics (C25-C36)	7.92	Baseline Event	birdsellm	03/17/11 10:33

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13459-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 58077Lab Sample ID: 280-13233-A-2-D MS Client Sample ID: _____Date Analyzed: 03/16/11 19:34 Lab File ID: 022B2201.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C25]	3.88	Baseline Event	birdsellm	03/17/11 10:33
o-Terphenyl	5.28	Baseline Event	birdsellm	03/17/11 10:33
Motor Oil Range Organics (C25-C36)	7.92	Baseline Event	birdsellm	03/17/11 10:33

Lab Sample ID: 280-13233-A-2-E MSD Client Sample ID: _____Date Analyzed: 03/16/11 20:02 Lab File ID: 023B2301.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C25]	3.88	Baseline Event	birdsellm	03/17/11 10:33
o-Terphenyl	5.28	Baseline Event	birdsellm	03/17/11 10:33
Motor Oil Range Organics (C25-C36)	7.92	Baseline Event	birdsellm	03/17/11 10:33

Lab Sample ID: 280-13459-2 Client Sample ID: SKAER FARMS3 SS02Date Analyzed: 03/16/11 20:30 Lab File ID: 024B2401.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C25]	3.88	Baseline Event	birdsellm	03/17/11 10:34
o-Terphenyl	5.28	Baseline Event	birdsellm	03/17/11 10:34
Motor Oil Range Organics (C25-C36)	7.92	Baseline Event	birdsellm	03/17/11 10:34

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-13459-1

SDG No.: _____

Instrument ID: GCS_U Analysis Batch Number: 58077Lab Sample ID: CCV 280-58077/23 Client Sample ID: _____Date Analyzed: 03/16/11 20:58 Lab File ID: 025B2501.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C25]	3.88	Baseline Event	birdsellm	03/17/11 10:25
Diesel Range Organics [C10-C28]	4.18	Baseline Event	birdsellm	03/17/11 10:25
C10-C36	4.87	Baseline Event	birdsellm	03/17/11 10:25
o-Terphenyl	5.29	Baseline Event	birdsellm	03/17/11 10:25
n-Octacosane	7.52	Baseline Event	birdsellm	03/17/11 10:25
Motor Oil Range Organics [C24-C36]	7.81	Baseline Event	birdsellm	03/17/11 10:25
Motor Oil Range Organics (C25-C36)	7.92	Baseline Event	birdsellm	03/17/11 10:25

Lab Sample ID: CCV 280-58077/24 Client Sample ID: _____Date Analyzed: 03/16/11 21:26 Lab File ID: 026B2601.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C25]	3.88	Baseline Event	birdsellm	03/17/11 10:26
C10-C36	4.87	Baseline Event	birdsellm	03/17/11 10:26
Motor Oil Range Organics [C24-C36]	7.81	Baseline Event	birdsellm	03/17/11 10:26
Motor Oil Range Organics (C25-C36)	7.92	Baseline Event	birdsellm	03/17/11 10:26

SAMPLE SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13459-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-13459-1	SKAER FARMS3 SS01	Solid	03/11/2011 1500	03/11/2011 1615
280-13459-2	SKAER FARMS3 SS02	Solid	03/11/2011 1500	03/11/2011 1615

EXECUTIVE SUMMARY - Detections

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13459-1

Lab Sample ID	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
Analyte					
<hr/>					
280-13459-1	SKAER FARMS3 SS01				
Percent Moisture		19	0.10	%	Moisture
<i>Soluble</i>					
Sodium Adsorption Ratio		160	1.2	No Unit	20B
Sodium		41000000	10000	ug/Kg	20B
Calcium		3300000	2000	ug/Kg	20B
Magnesium		1100000	2000	ug/Kg	20B
280-13459-2	SKAER FARMS3 SS02				
Diesel Range Organics [C10-C25]		5.4	5.2	mg/Kg	8015B
Percent Moisture		25	0.10	%	Moisture
<i>Soluble</i>					
Sodium Adsorption Ratio		110	1.2	No Unit	20B
Sodium		14000000	10000	ug/Kg	20B
Calcium		890000	2000	ug/Kg	20B
Magnesium		190000	2000	ug/Kg	20B

METHOD SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13459-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Diesel Range Organics (DRO) (GC)	TAL DEN	SW846 8015B	
Microwave Extraction	TAL DEN		SW846 3546
Sodium Adsorption Ratio	TAL DEN	USDA 20B	
Preparation, Sodium Absorption Ratio	TAL DEN		USDA 20B
Percent Moisture	TAL DEN	EPA Moisture	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USDA = "USDA Agriculture Handbook 60, section 20B".

METHOD / ANALYST SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13459-1

Method	Analyst	Analyst ID
SW846 8015B	Birdsell, Matthew R	MRB
USDA 20B	Harre, John K	JKH
EPA Moisture	Berry III, Paul B	PBB

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13459-1

Client Sample ID: SKAER FARMS3 SS01

Lab Sample ID: 280-13459-1

Date Sampled: 03/11/2011 1500

Client Matrix: Solid

% Moisture: 19.0

Date Received: 03/11/2011 1615

8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 280-58077	Instrument ID:	GCS_U
Preparation:	3546	Prep Batch: 280-57599	Initial Weight/Volume:	31.0 g
Dilution:	1.0		Final Weight/Volume:	1000 uL
Date Analyzed:	03/16/2011 1300		Injection Volume:	1 uL
Date Prepared:	03/15/2011 1750		Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Motor Oil Range Organics (C25-C36)		ND		14
Diesel Range Organics [C10-C25]		ND		4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	80		49 - 115

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13459-1

Client Sample ID: SKAER FARMS3 SS02

Lab Sample ID: 280-13459-2

Date Sampled: 03/11/2011 1500

Client Matrix: Solid

% Moisture: 25.1

Date Received: 03/11/2011 1615

8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 280-58077	Instrument ID:	GCS_U
Preparation:	3546	Prep Batch: 280-57599	Initial Weight/Volume:	30.6 g
Dilution:	1.0		Final Weight/Volume:	1000 uL
Date Analyzed:	03/16/2011 2030		Injection Volume:	1 uL
Date Prepared:	03/15/2011 1750		Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Motor Oil Range Organics (C25-C36)		ND		16
Diesel Range Organics [C10-C25]		5.4		5.2

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	81		49 - 115

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13459-1

Client Sample ID: SKAER FARMS3 SS01

Lab Sample ID: 280-13459-1

Date Sampled: 03/11/2011 1500

Client Matrix: Solid

Date Received: 03/11/2011 1615

20B Sodium Adsorption Ratio-Soluble

Method:	20B	Analysis Batch: 280-58571	Instrument ID:	MT_025
Preparation:	20B	Prep Batch: 280-57723	Lab File ID:	N/A
Dilution:	10		Initial Weight/Volume:	5 g
Date Analyzed:	03/21/2011 1343		Final Weight/Volume:	50 mL
Date Prepared:	03/16/2011 0835			

Analyte	DryWt Corrected: N	Result (No Unit)	Qualifier	RL
Sodium Adsorption Ratio		160		1.2

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Sodium		41000000		10000
Calcium		3300000		2000
Magnesium		1100000		2000

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13459-1

Client Sample ID: SKAER FARMS3 SS02

Lab Sample ID: 280-13459-2

Date Sampled: 03/11/2011 1500

Client Matrix: Solid

Date Received: 03/11/2011 1615

20B Sodium Adsorption Ratio-Soluble

Method:	20B	Analysis Batch: 280-58571	Instrument ID:	MT_025
Preparation:	20B	Prep Batch: 280-57723	Lab File ID:	N/A
Dilution:	10		Initial Weight/Volume:	5 g
Date Analyzed:	03/21/2011 1343		Final Weight/Volume:	50 mL
Date Prepared:	03/16/2011 0835			

Analyte	DryWt Corrected: N	Result (No Unit)	Qualifier	RL
Sodium Adsorption Ratio		110		1.2

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Sodium		14000000		10000
Calcium		890000		2000
Magnesium		190000		2000

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13459-1

General Chemistry

Client Sample ID: SKAER FARMS3 SS01

Lab Sample ID: 280-13459-1

Date Sampled: 03/11/2011 1500

Client Matrix: Solid

Date Received: 03/11/2011 1615

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	19		%	0.10	1.0	Moisture
Analysis Batch: 280-57276		Date Analyzed: 03/14/2011 0813				DryWt Corrected: N

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13459-1

General Chemistry

Client Sample ID: SKAER FARMS3 SS02

Lab Sample ID: 280-13459-2

Date Sampled: 03/11/2011 1500

Client Matrix: Solid

Date Received: 03/11/2011 1615

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	25		%	0.10	1.0	Moisture
Analysis Batch: 280-57276		Date Analyzed: 03/14/2011 0813				DryWt Corrected: N

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13459-1

Surrogate Recovery Report

8015B Diesel Range Organics (DRO) (GC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	OTPH1 %Rec
280-13459-1	SKAER FARMS3 SS01	80
280-13459-2	SKAER FARMS3 SS02	81
MB 280-57599/1-A		102
LCS 280-57599/2-A		88
LCS 280-57599/14-A		85
280-13459-1 MS	SKAER FARMS3 SS01 MS	73
280-13233-A-2-D MS		77
280-13459-1 MSD	SKAER FARMS3 SS01 MSD	95
280-13233-A-2-E MSD		64

Surrogate	Acceptance Limits
OTPH = o-Terphenyl	49-115

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-13459-1

Method Blank - Batch: 280-57599

Lab Sample ID: MB 280-57599/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2011 1204
Date Prepared: 03/15/2011 1750

Analysis Batch: 280-58077
Prep Batch: 280-57599
Units: mg/Kg

Method: 8015B Preparation: 3546

Instrument ID: GCS_U
Lab File ID: 006B0601.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 1000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	RL
Motor Oil Range Organics (C25-C36)	ND		12
Diesel Range Organics [C10-C25]	ND		4.0

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	102	49 - 115

Lab Control Sample - Batch: 280-57599

Lab Sample ID: LCS 280-57599/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2011 1232
Date Prepared: 03/15/2011 1750

Analysis Batch: 280-58077
Prep Batch: 280-57599
Units: mg/Kg

Method: 8015B Preparation: 3546

Instrument ID: GCS_U
Lab File ID: 007B0701.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 1000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Diesel Range Organics [C10-C25]	66.7	70.9	106	53 - 115	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	88	49 - 115

Lab Control Sample - Batch: 280-57599

Lab Sample ID: LCS 280-57599/14-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2011 1906
Date Prepared: 03/15/2011 1750

Analysis Batch: 280-58077
Prep Batch: 280-57599
Units: mg/Kg

Method: 8015B Preparation: 3546

Instrument ID: GCS_U
Lab File ID: 021B2101.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 1000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Motor Oil Range Organics (C25-C36)	167	161	96		

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	85	49 - 115

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-13459-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-57599**

**Method: 8015B
Preparation: 3546**

MS Lab Sample ID: 280-13459-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2011 1328
Date Prepared: 03/15/2011 1750

Analysis Batch: 280-58077
Prep Batch: 280-57599

Instrument ID: GCS_U
Lab File ID: 009B0901.D
Initial Weight/Volume: 30.8 g
Final Weight/Volume: 1000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

MSD Lab Sample ID: 280-13459-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2011 1356
Date Prepared: 03/15/2011 1750

Analysis Batch: 280-58077
Prep Batch: 280-57599

Instrument ID: GCS_U
Lab File ID: 010B1001.D
Initial Weight/Volume: 30.9 g
Final Weight/Volume: 1000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Diesel Range Organics [C10-C25]	89	100	56 - 115	11	23		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
o-Terphenyl		73	95			49 - 115	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-57599**

**Method: 8015B
Preparation: 3546**

MS Lab Sample ID: 280-13233-A-2-D MS
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2011 1934
Date Prepared: 03/15/2011 1750

Analysis Batch: 280-58077
Prep Batch: 280-57599

Instrument ID: GCS_U
Lab File ID: 022B2201.D
Initial Weight/Volume: 30.2 g
Final Weight/Volume: 1000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

MSD Lab Sample ID: 280-13233-A-2-E MSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2011 2002
Date Prepared: 03/15/2011 1750

Analysis Batch: 280-58077
Prep Batch: 280-57599

Instrument ID: GCS_U
Lab File ID: 023B2301.D
Initial Weight/Volume: 30.2 g
Final Weight/Volume: 1000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Motor Oil Range Organics (C25-C36)	111	104		5			
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
o-Terphenyl		77	64			49 - 115	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13459-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-57599

Method: 8015B

Preparation: 3546

MS Lab Sample ID: 280-13459-1 Units: mg/Kg
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2011 1328
Date Prepared: 03/15/2011 1750

MSD Lab Sample ID: 280-13459-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2011 1356
Date Prepared: 03/15/2011 1750

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Diesel Range Organics [C10-C25]	ND	80.2	79.9	74.9	83.4

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-57599

Method: 8015B

Preparation: 3546

MS Lab Sample ID: 280-13233-A-2-D MS Units: mg/Kg
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2011 1934
Date Prepared: 03/15/2011 1750

MSD Lab Sample ID: 280-13233-A-2-E MSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/16/2011 2002
Date Prepared: 03/15/2011 1750

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Motor Oil Range Organics (C25-C36)	45	185	185	250	238

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13459-1

Method Blank - Batch: 280-57723

Lab Sample ID: MB 280-57723/1-A
Client Matrix: Solid
Dilution: 10
Date Analyzed: 03/21/2011 1343
Date Prepared: 03/16/2011 0835

Analysis Batch: 280-58571
Prep Batch: 280-57723
Units: No Unit

Method: 20B Preparation: 20B Soluble

Instrument ID: MT_025
Lab File ID: N/A
Initial Weight/Volume: 5 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Sodium Adsorption Ratio	ND		1.2

Method Blank - Batch: 280-57723

Lab Sample ID: MB 280-57723/1-A
Client Matrix: Solid
Dilution: 10
Date Analyzed: 03/21/2011 1343
Date Prepared: 03/16/2011 0835

Analysis Batch: 280-58571
Prep Batch: 280-57723
Units: ug/Kg

Method: 20B Preparation: 20B Soluble

Instrument ID: MT_025
Lab File ID: N/A
Initial Weight/Volume: 5 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Sodium	ND		10000
Calcium	ND		2000
Magnesium	ND		2000

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13459-1

Duplicate - Batch: 280-57276

Lab Sample ID: 280-13425-A-1 DU
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/14/2011 0813
Date Prepared: N/A

Analysis Batch: 280-57276
Prep Batch: N/A
Units: %

Method: Moisture Preparation: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	87	87	0.03	20	

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13459-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-57599					
LCS 280-57599/14-A	Lab Control Sample	T	Solid	3546	
LCS 280-57599/2-A	Lab Control Sample	T	Solid	3546	
MB 280-57599/1-A	Method Blank	T	Solid	3546	
280-13233-A-2-D MS	Matrix Spike	T	Solid	3546	
280-13233-A-2-E MSD	Matrix Spike Duplicate	T	Solid	3546	
280-13459-1	SKAER FARMS3 SS01	T	Solid	3546	
280-13459-1MS	Matrix Spike	T	Solid	3546	
280-13459-1MSD	Matrix Spike Duplicate	T	Solid	3546	
280-13459-2	SKAER FARMS3 SS02	T	Solid	3546	
Analysis Batch:280-58077					
LCS 280-57599/14-A	Lab Control Sample	T	Solid	8015B	280-57599
LCS 280-57599/2-A	Lab Control Sample	T	Solid	8015B	280-57599
MB 280-57599/1-A	Method Blank	T	Solid	8015B	280-57599
280-13233-A-2-D MS	Matrix Spike	T	Solid	8015B	280-57599
280-13233-A-2-E MSD	Matrix Spike Duplicate	T	Solid	8015B	280-57599
280-13459-1	SKAER FARMS3 SS01	T	Solid	8015B	280-57599
280-13459-1MS	Matrix Spike	T	Solid	8015B	280-57599
280-13459-1MSD	Matrix Spike Duplicate	T	Solid	8015B	280-57599
280-13459-2	SKAER FARMS3 SS02	T	Solid	8015B	280-57599

Report Basis

T = Total

Metals

Prep Batch: 280-57723					
MB 280-57723/1-A	Method Blank	S	Solid	20B	
280-13459-1	SKAER FARMS3 SS01	S	Solid	20B	
280-13459-2	SKAER FARMS3 SS02	S	Solid	20B	
Analysis Batch:280-58571					
MB 280-57723/1-A	Method Blank	S	Solid	20B	280-57723
280-13459-1	SKAER FARMS3 SS01	S	Solid	20B	280-57723
280-13459-2	SKAER FARMS3 SS02	S	Solid	20B	280-57723

Report Basis

S = Soluble

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13459-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-57276					
280-13425-A-1 DU	Duplicate	T	Solid	Moisture	
280-13459-1	SKAER FARMS3 SS01	T	Solid	Moisture	
280-13459-2	SKAER FARMS3 SS02	T	Solid	Moisture	

Report Basis

T = Total

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13459-1

Laboratory Chronicle

Lab ID: 280-13459-1

Client ID: SKAER FARMS3 SS01

Sample Date/Time: 03/11/2011 15:00

Received Date/Time: 03/11/2011 16:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3546	280-13459-A-1-A		280-58077	280-57599	03/15/2011 17:50	1	TAL DEN	TJA
A:8015B	280-13459-A-1-A		280-58077	280-57599	03/16/2011 13:00	1	TAL DEN	MRB
P:20B	280-13459-A-1-D		280-58571	280-57723	03/16/2011 08:35	10	TAL DEN	JM
A:20B	280-13459-A-1-D		280-58571	280-57723	03/21/2011 13:43	10	TAL DEN	JKH
A:Moisture	280-13459-A-1		280-57276		03/14/2011 08:13	1	TAL DEN	PBB

Lab ID: 280-13459-1 MS

Client ID: SKAER FARMS3 SS01

Sample Date/Time: 03/11/2011 15:00

Received Date/Time: 03/11/2011 16:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3546	280-13459-A-1-B MS		280-58077	280-57599	03/15/2011 17:50	1	TAL DEN	TJA
A:8015B	280-13459-A-1-B MS		280-58077	280-57599	03/16/2011 13:28	1	TAL DEN	MRB

Lab ID: 280-13459-1 MSD

Client ID: SKAER FARMS3 SS01

Sample Date/Time: 03/11/2011 15:00

Received Date/Time: 03/11/2011 16:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3546	280-13459-A-1-C MSD		280-58077	280-57599	03/15/2011 17:50	1	TAL DEN	TJA
A:8015B	280-13459-A-1-C MSD		280-58077	280-57599	03/16/2011 13:56	1	TAL DEN	MRB

Lab ID: 280-13459-2

Client ID: SKAER FARMS3 SS02

Sample Date/Time: 03/11/2011 15:00

Received Date/Time: 03/11/2011 16:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3546	280-13459-A-2-A		280-58077	280-57599	03/15/2011 17:50	1	TAL DEN	TJA
A:8015B	280-13459-A-2-A		280-58077	280-57599	03/16/2011 20:30	1	TAL DEN	MRB
P:20B	280-13459-A-2-B		280-58571	280-57723	03/16/2011 08:35	10	TAL DEN	JM
A:20B	280-13459-A-2-B		280-58571	280-57723	03/21/2011 13:43	10	TAL DEN	JKH
A:Moisture	280-13459-A-2		280-57276		03/14/2011 08:13	1	TAL DEN	PBB

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3546	MB 280-57599/1-A		280-58077	280-57599	03/15/2011 17:50	1	TAL DEN	TJA
A:8015B	MB 280-57599/1-A		280-58077	280-57599	03/16/2011 12:04	1	TAL DEN	MRB
P:20B	MB 280-57723/1-A		280-58571	280-57723	03/16/2011 08:35	10	TAL DEN	JM
A:20B	MB 280-57723/1-A		280-58571	280-57723	03/21/2011 13:43	10	TAL DEN	JKH

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13459-1

Laboratory Chronicle

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3546	LCS 280-57599/2-A		280-58077	280-57599	03/15/2011 17:50	1	TAL DEN	TJA
A:8015B	LCS 280-57599/2-A		280-58077	280-57599	03/16/2011 12:32	1	TAL DEN	MRB
P:3546	LCS 280-57599/14-A		280-58077	280-57599	03/15/2011 17:50	1	TAL DEN	TJA
A:8015B	LCS 280-57599/14-A		280-58077	280-57599	03/16/2011 19:06	1	TAL DEN	MRB

Lab ID: MS

Client ID: N/A

Sample Date/Time: 03/08/2011 08:45

Received Date/Time: 03/08/2011 15:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3546	280-13233-A-2-D MS		280-58077	280-57599	03/15/2011 17:50	1	TAL DEN	TJA
A:8015B	280-13233-A-2-D MS		280-58077	280-57599	03/16/2011 19:34	1	TAL DEN	MRB

Lab ID: MSD

Client ID: N/A

Sample Date/Time: 03/08/2011 08:45

Received Date/Time: 03/08/2011 15:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3546	280-13233-A-2-E MSD		280-58077	280-57599	03/15/2011 17:50	1	TAL DEN	TJA
A:8015B	280-13233-A-2-E MSD		280-58077	280-57599	03/16/2011 20:02	1	TAL DEN	MRB

Lab ID: DU

Client ID: N/A

Sample Date/Time: 03/07/2011 00:00

Received Date/Time: 03/11/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	280-13425-A-1 DU		280-57276		03/14/2011 08:13	1	TAL DEN	PBB

Lab References:

TAL DEN = TestAmerica Denver

Method 8015B – DRO

Diesel Range Organics (DRO) (GC) by
Method 8015B

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-13459-1
SDG No.: _____
Client Sample ID: SKAER FARMS3 SS01 Lab Sample ID: 280-13459-1
Matrix: Solid Lab File ID: 008B0801.D
Analysis Method: 8015B Date Collected: 03/11/2011 15:00
Extraction Method: 3546 Date Extracted: 03/15/2011 17:50
Sample wt/vol: 31.0(g) Date Analyzed: 03/16/2011 13:00
Con. Extract Vol.: 1000(uL) Dilution Factor: 1
Injection Volume: 1(uL) GC Column: RTX-1 (30.32) ID: 0.25(mm)
% Moisture: 19.0 GPC Cleanup: (Y/N) N
Analysis Batch No.: 58077 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00383	Motor Oil Range Organics (C25-C36)	ND		14	4.7
STL00258	Diesel Range Organics [C10-C25]	ND		4.8	0.81

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		49-115

Data File: \\DenSvr03\Public\chem\GCS\GC_U.i\0316111.B\008B0801.D
Report Date: 17-Mar-2011 10:29

TestAmerica

SW846 8015 mod.

Data file : \\DenSvr03\Public\chem\GCS\GC_U.i\0316111.B\008B0801.D
Lab Smp Id: 280-13459-A-1-A Client Smp ID: SKAER FARMS3 SS01
Inj Date : 16-MAR-2011 13:00
Operator : MB Inst ID: GC_U.i
Smp Info : 280-643012,59-1
Misc Info : 280-13459-A-1-A
Comment : DEN-GC-0002
Method : \\DenSvr03\Public\chem\GCS\GC_U.i\0316111.B\DR01.m
Meth Date : 17-Mar-2011 10:24 birdsellm Quant Type: ESTD
Cal Date : 11-MAR-2011 15:14 Cal File: 007B0701.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: C10-28(DRO).sub
Target Version: 4.14
Processing Host: DENPC248

Concentration Formula: Amt * DF * Vf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	Final Volume of Extract (uL)
Ws	31.000	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

		CONCENTRATIONS					
		RT	EXP RT	DLT RT	RESPONSE		
Compounds					ON-COLUMN	FINAL	
					(ug/ml)	(ug/Kg)	
=====		=====	=====	=====	=====	=====	
S	3 C10-C28	0.837-7.530			210115	94.3983	3045(M)
S	4 C10 - C36	0.837-8.897			266903	119.801	3864(M)
S	178 C10-25	0.837-6.923			196123	88.1875	2845(M)
S	180 C25-36	6.923-8.910			73708	44.2129	1426(M)
S	173 C24-C36	6.717-8.910			91244	47.9749	1548(M)
\$	1 o-Terphenyl	5.280	5.286	-0.006	46213	15.9282	513.8(M)
\$	6 n-Octacosane	7.523	7.526	-0.003	46875	19.2796	621.9(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 008B0801.D

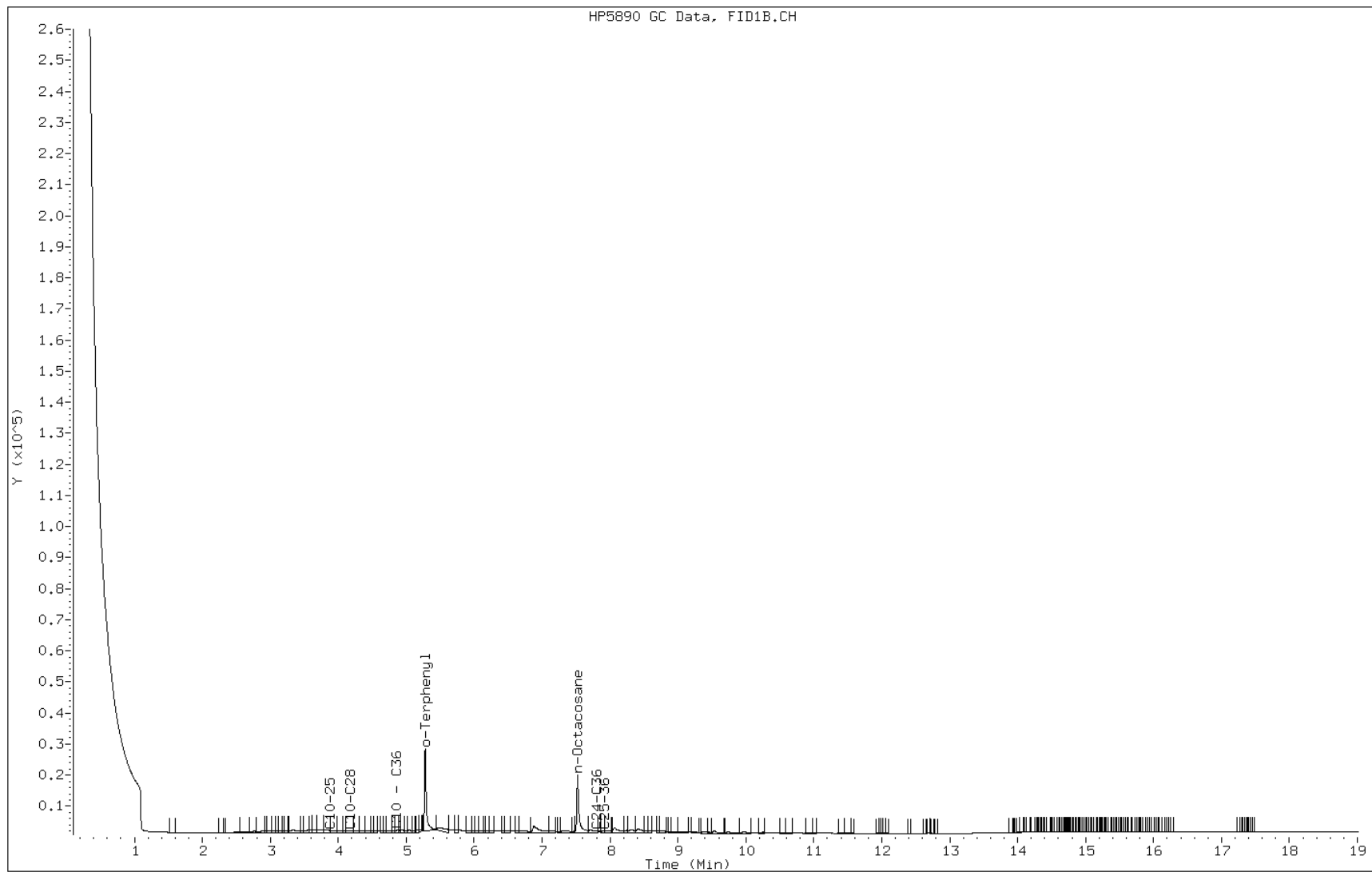
Date: 16-MAR-2011 13:00

Client ID: SKAER FARMS3 SS01

Instrument: GC_U.i

Sample Info: 280-643012,59-1

Operator: MB

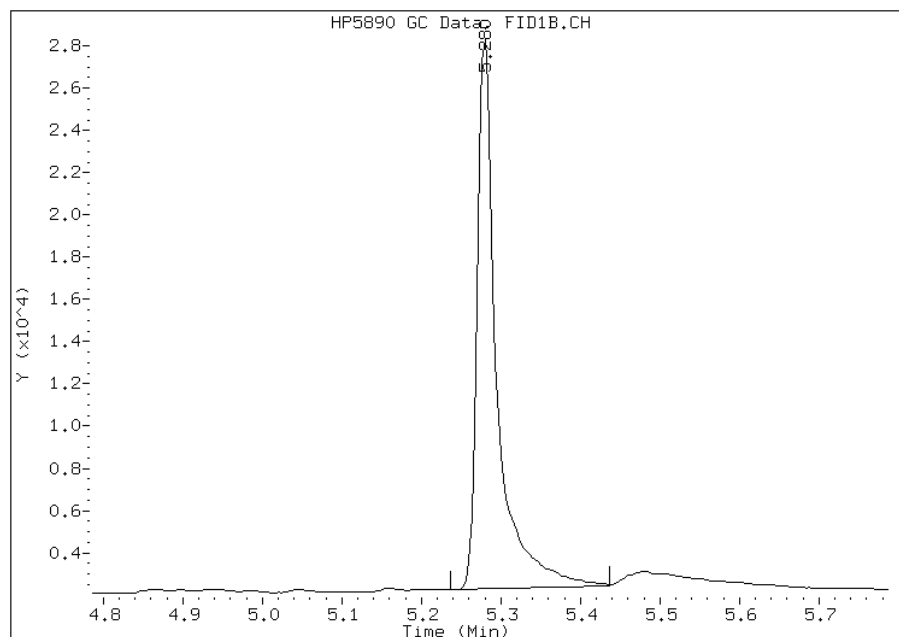


Manual Integration Report

Data File: 008B0801.D
Inj. Date and Time: 16-MAR-2011 13:00
Instrument ID: GC_U.i
Client ID: SKAER FARMS3 SS01
Compound: 1 o-Terphenyl
CAS #: 84-15-1
Report Date: 03/17/2011

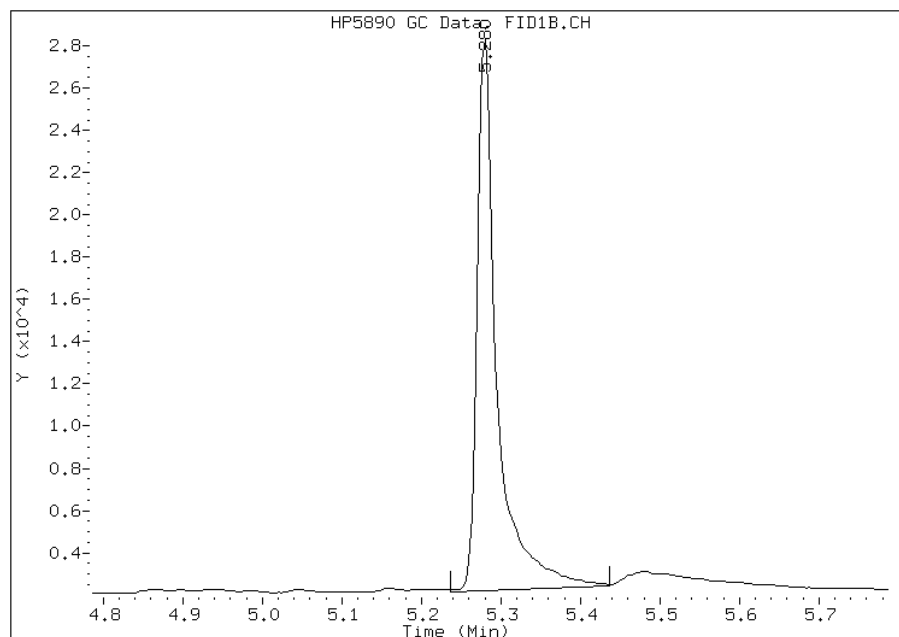
Processing Integration Results

RT: 5.28
Response: 45753
Amount: 15.79
Conc: 509.29



Manual Integration Results

RT: 5.28
Response: 46213
Amount: 15.93
Conc: 513.81



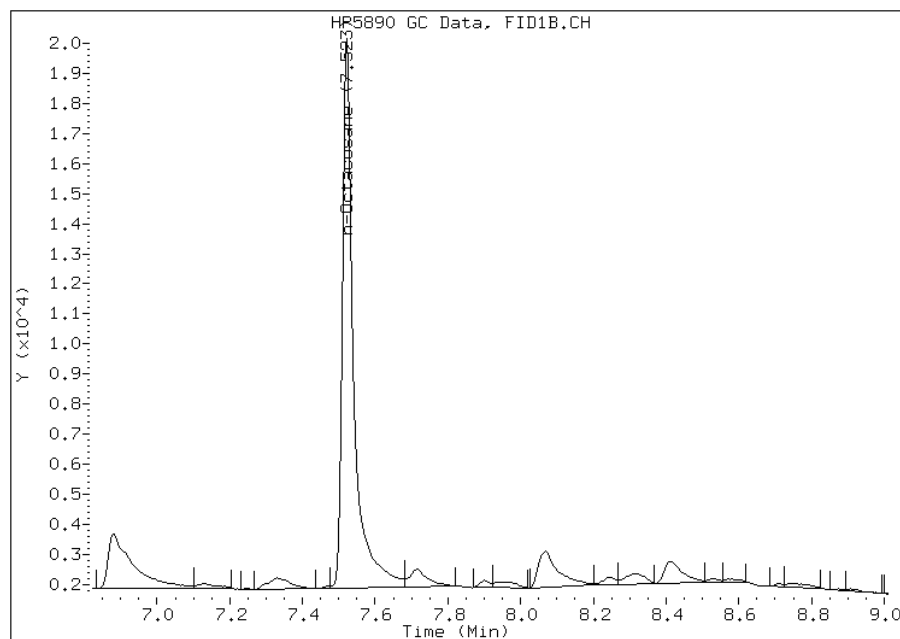
Manually Integrated By: birdsellm
Modification Date: 17-Mar-2011 10:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 008B0801.D
Inj. Date and Time: 16-MAR-2011 13:00
Instrument ID: GC_U.i
Client ID: SKAER FARMS3 SS01
Compound: 180 C25-36
CAS #: STL00383
Report Date: 03/17/2011

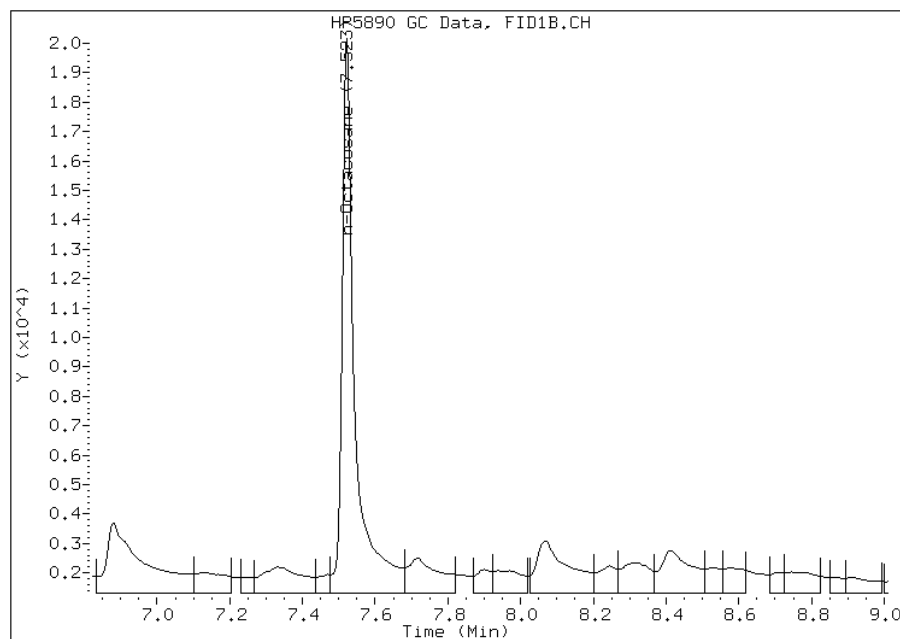
Processing Integration Results

RT: 7.92
Response: 16062
Amount: 9.63
Conc: 310.79



Manual Integration Results

RT: 7.92
Response: 73708
Amount: 44.21
Conc: 1426.22



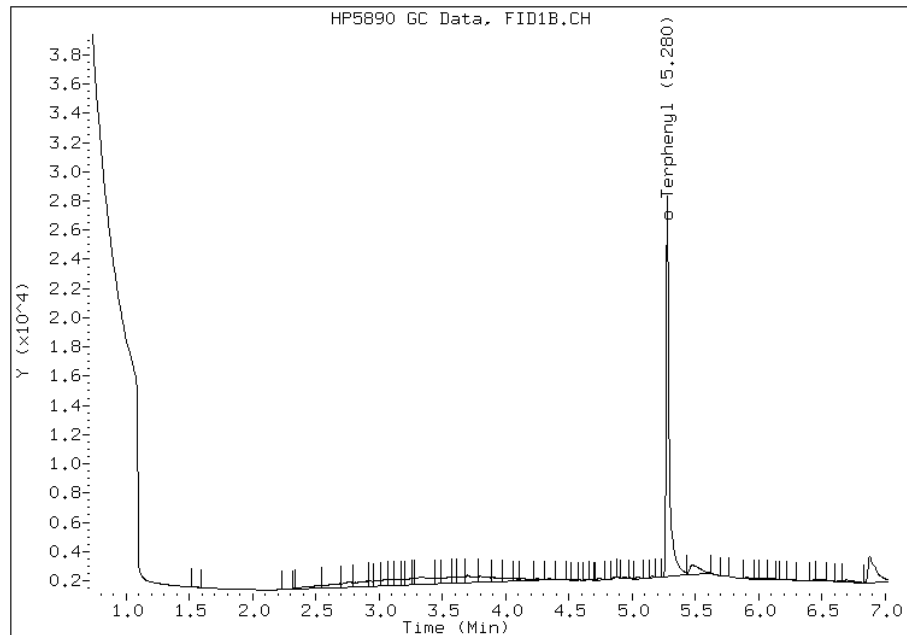
Manually Integrated By: birdsellm
Modification Date: 17-Mar-2011 10:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 008B0801.D
Inj. Date and Time: 16-MAR-2011 13:00
Instrument ID: GC_U.i
Client ID: SKAER FARMS3 SS01
Compound: 178 C10-25
CAS #: STL00258
Report Date: 03/17/2011

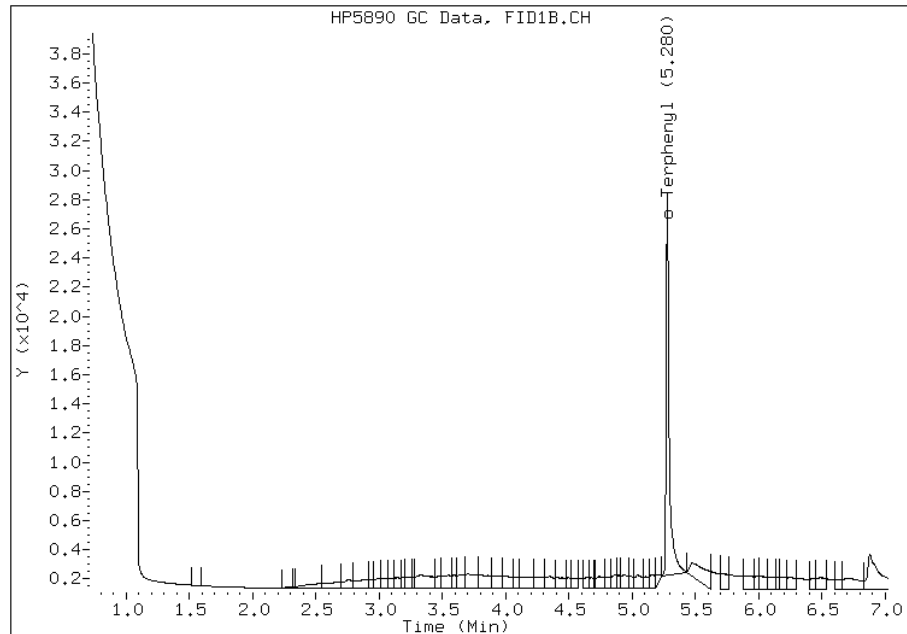
Processing Integration Results

RT: 3.88
Response: 51177
Amount: 23.01
Conc: 742.32



Manual Integration Results

RT: 3.88
Response: 196123
Amount: 88.19
Conc: 2844.76



Manually Integrated By: birdsellm
Modification Date: 17-Mar-2011 10:29
Manual Integration Reason: Baseline Event

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-13459-1
SDG No.: _____
Client Sample ID: SKAER FARMS3 SS02 Lab Sample ID: 280-13459-2
Matrix: Solid Lab File ID: 024B2401.D
Analysis Method: 8015B Date Collected: 03/11/2011 15:00
Extraction Method: 3546 Date Extracted: 03/15/2011 17:50
Sample wt/vol: 30.6(g) Date Analyzed: 03/16/2011 20:30
Con. Extract Vol.: 1000(uL) Dilution Factor: 1
Injection Volume: 1(uL) GC Column: RTX-1 (30.32) ID: 0.25(mm)
% Moisture: 25.1 GPC Cleanup: (Y/N) N
Analysis Batch No.: 58077 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00383	Motor Oil Range Organics (C25-C36)	ND		16	5.1
STL00258	Diesel Range Organics [C10-C25]	5.4		5.2	0.89

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	81		49-115

Data File: \\DenSvr03\Public\chem\GCS\GC_U.i\0316111.B\024B2401.D
Report Date: 17-Mar-2011 10:34

TestAmerica

SW846 8015 mod.

Data file : \\DenSvr03\Public\chem\GCS\GC_U.i\0316111.B\024B2401.D
Lab Smp Id: 280-13459-A-2-A Client Smp ID: SKAER FARMS3 SS02
Inj Date : 16-MAR-2011 20:30
Operator : MB Inst ID: GC_U.i
Smp Info : 280-643143,59-2
Misc Info : 280-13459-A-2-A
Comment : DEN-GC-0002
Method : \\DenSvr03\Public\chem\GCS\GC_U.i\0316111.B\DR01.m
Meth Date : 17-Mar-2011 10:24 birdsellm Quant Type: ESTD
Cal Date : 11-MAR-2011 15:14 Cal File: 007B0701.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: C10-28(DRO).sub
Target Version: 4.14
Processing Host: DENPC248

Concentration Formula: Amt * DF * Vf/Ws * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	Final Volume of Extract (uL)
Ws	30.600	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

Compounds					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
S 3 C10-C28	0.837-7.530			298077	133.917	4376(M)
S 4 C10 - C36	0.837-8.897			447602	200.908	6566(M)
S 178 C10-25	0.837-6.923			273821	123.125	4024(M)
S 180 C25-36	6.923-8.910			173781	104.240	3406(M)
S 173 C24-C36	6.717-8.910			240232	126.311	4128(M)
\$ 1 o-Terphenyl	5.280	5.286	-0.006	47185	16.2246	530.2(M)
\$ 6 n-Octacosane	7.520	7.526	-0.006	61507	24.8953	813.6(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 024B2401.D

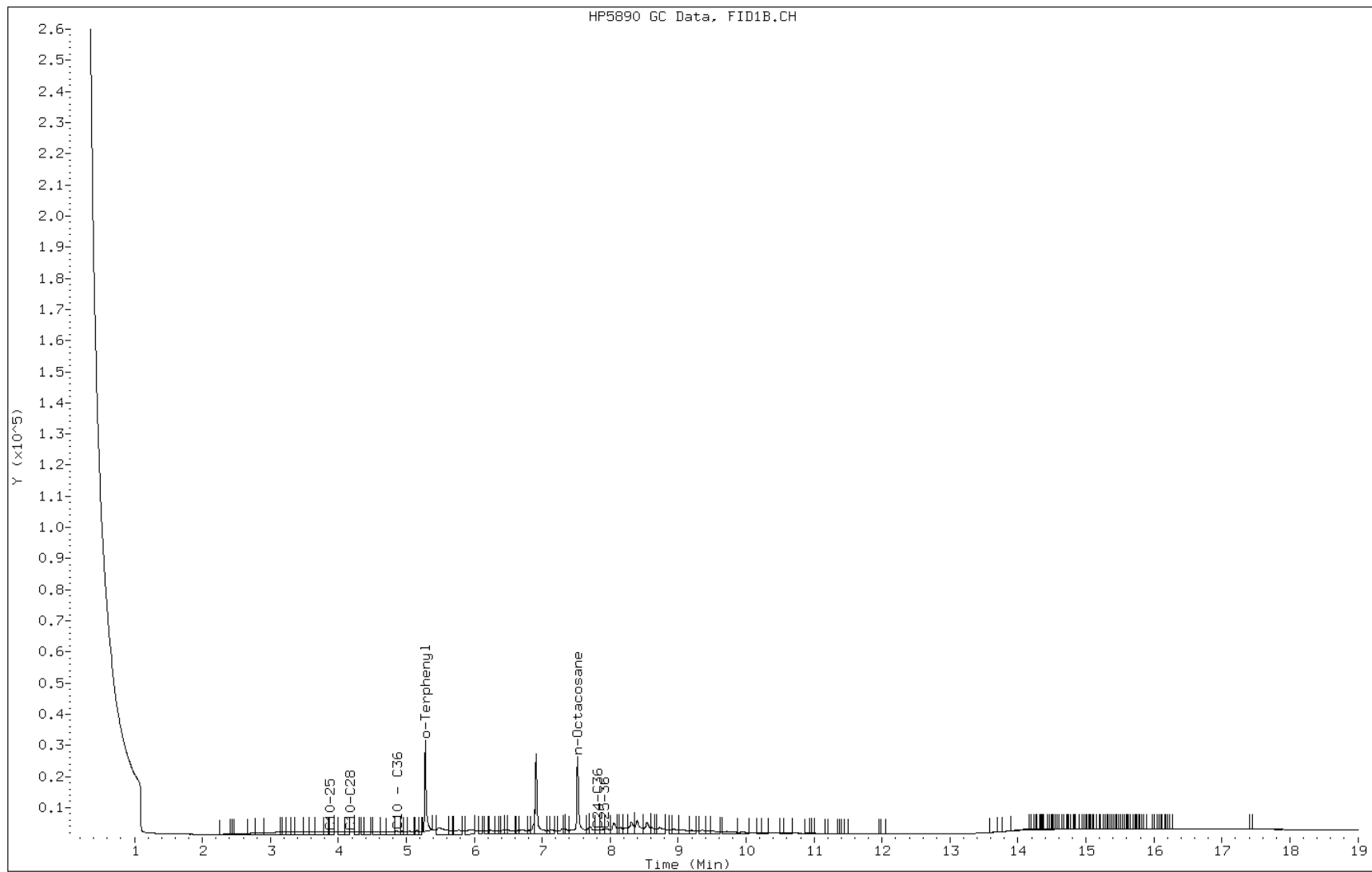
Date: 16-MAR-2011 20:30

Client ID: SKAER FARMS3 SS02

Instrument: GC_U.i

Sample Info: 280-643143,59-2

Operator: MB

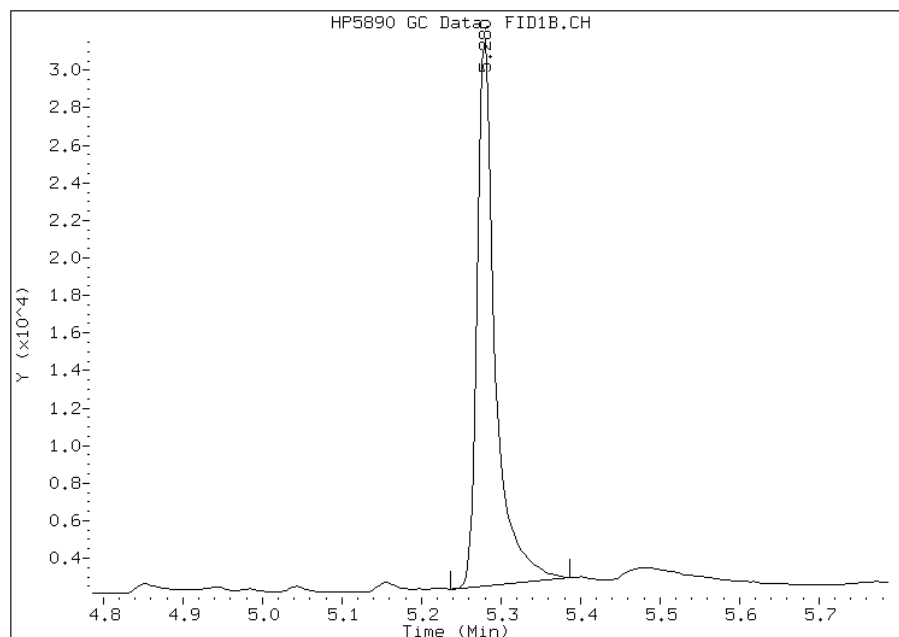


Manual Integration Report

Data File: 024B2401.D
Inj. Date and Time: 16-MAR-2011 20:30
Instrument ID: GC_U.i
Client ID: SKAER FARMS3 SS02
Compound: 1 o-Terphenyl
CAS #: 84-15-1
Report Date: 03/17/2011

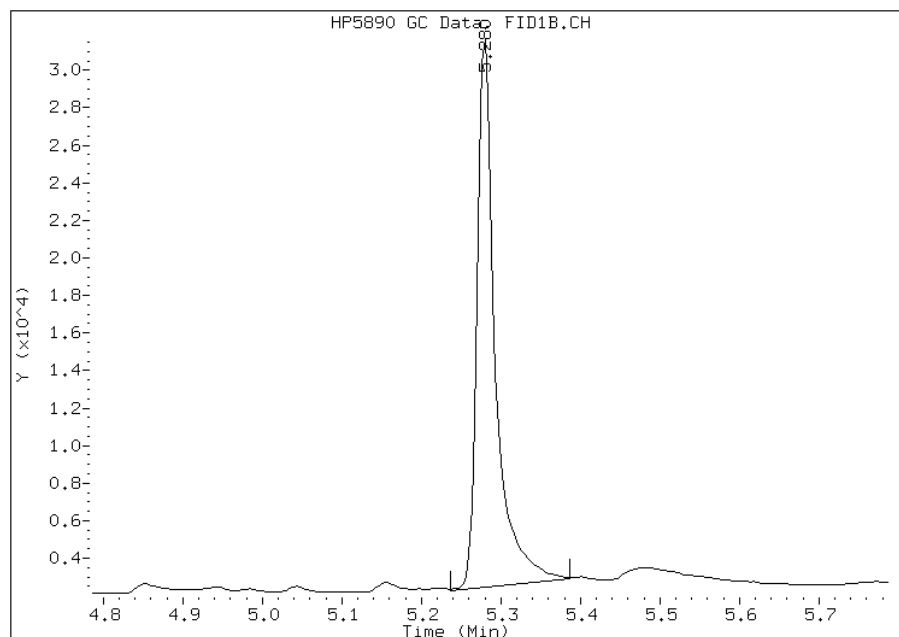
Processing Integration Results

RT: 5.28
Response: 46568
Amount: 16.04
Conc: 524.07



Manual Integration Results

RT: 5.28
Response: 47185
Amount: 16.22
Conc: 530.22



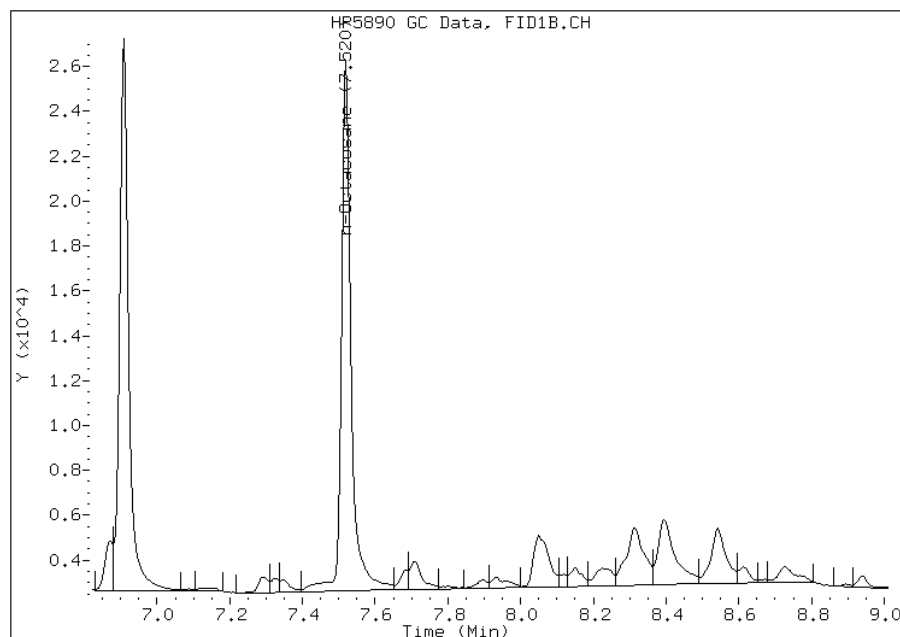
Manually Integrated By: birdsellm
Modification Date: 17-Mar-2011 10:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 024B2401.D
Inj. Date and Time: 16-MAR-2011 20:30
Instrument ID: GC_U.i
Client ID: SKAER FARMS3 SS02
Compound: 180 C25-36
CAS #: STL00383
Report Date: 03/17/2011

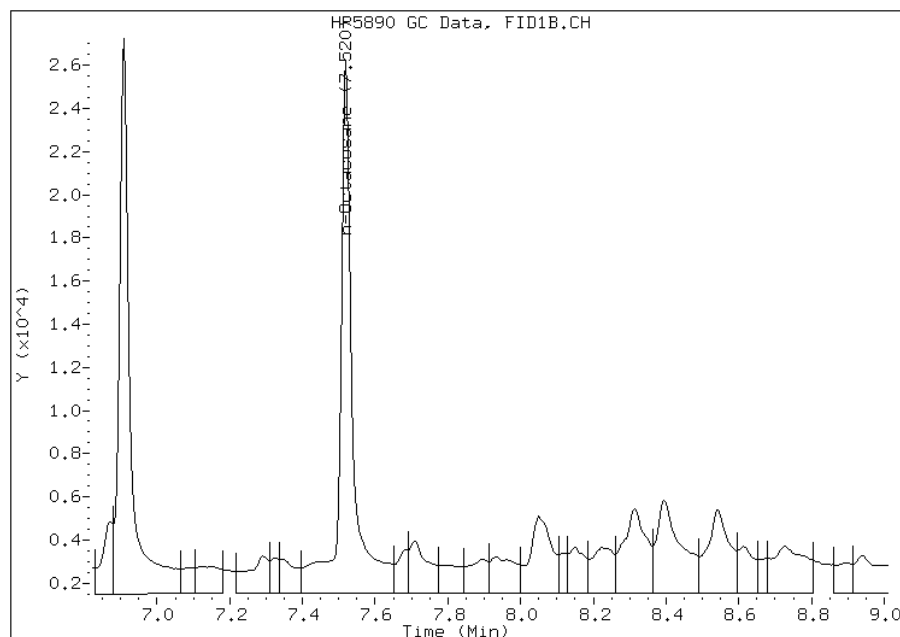
Processing Integration Results

RT: 7.92
Response: 52921
Amount: 31.74
Conc: 1037.39



Manual Integration Results

RT: 7.92
Response: 173781
Amount: 104.24
Conc: 3406.55



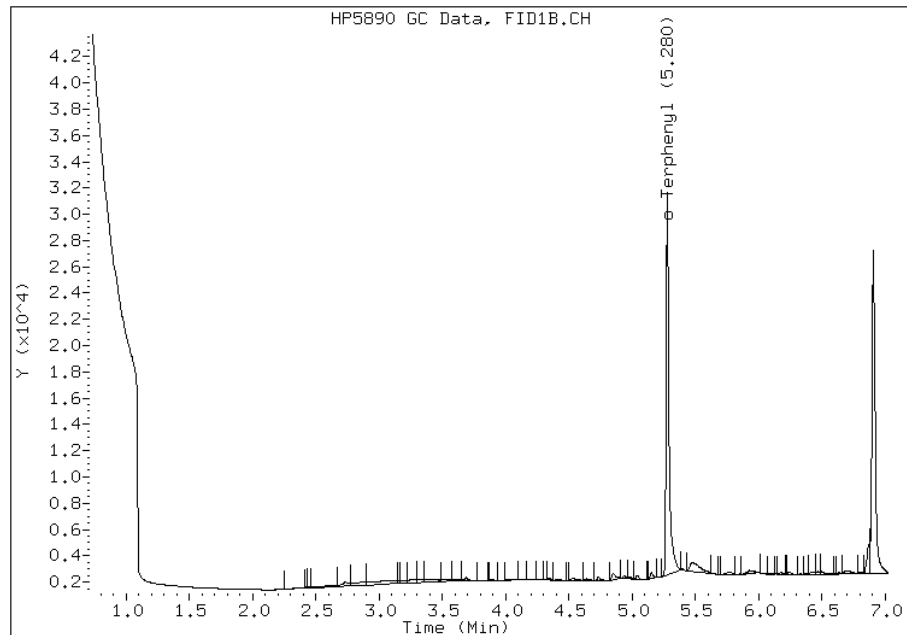
Manually Integrated By: birdsellm
Modification Date: 17-Mar-2011 10:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 024B2401.D
Inj. Date and Time: 16-MAR-2011 20:30
Instrument ID: GC_U.i
Client ID: SKAER FARMS3 SS02
Compound: 178 C10-25
CAS #: STL00258
Report Date: 03/17/2011

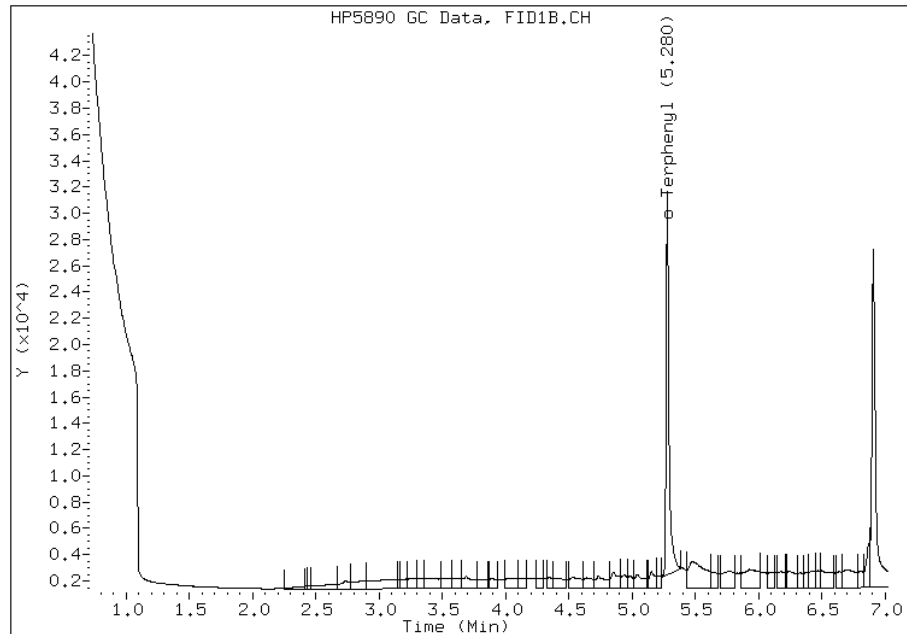
Processing Integration Results

RT: 3.88
Response: 73621
Amount: 33.10
Conc: 1081.83



Manual Integration Results

RT: 3.88
Response: 273821
Amount: 123.12
Conc: 4023.69



Manually Integrated By: birdsellm
Modification Date: 17-Mar-2011 10:34
Manual Integration Reason: Baseline Event

Shipping and Receiving Documents

[illegible]

*Time Zone (Circle):	EST	CST	MST	PST	Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter
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For metals or anions, please detail analytes below.

<div> <div>Comments:</div> <div>03/25/2011</div> </div>	QC PACKAGE (check below)		<div> <div>1-HCl</div> <div>2-HNO3</div> <div>3-H2SO4</div> <div>4-NaOH</div> <div>5-NaHSO4</div> <div>7-Other</div> <div>8-4 degrees C</div> <div>9-5035</div> </div>
	LEVEL II (Standard QC)		
	LEVEL III (Std QC + forms)		
	LEVEL IV (Std QC + forms + raw data)		
<div> <div>RELINQUISHED BY</div> <div>RECEIVED BY</div> <div>RELINQUISHED BY</div> <div>RECEIVED BY</div> <div>RELINQUISHED BY</div> <div>RECEIVED BY</div> </div>			<div> <div>STEVEN LINDSAY</div> <div>Lindsay Paulsen</div> <div>3/14/11</div> <div>3/14/11</div> <div>3/14/11</div> <div>3/14/11</div> </div>

Login Sample Receipt Checklist

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-13459-1

Login Number: 13459

List Source: TestAmerica Denver

List Number: 1

Creator: Paulsen, Lindsay T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	